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OCT 02 1989

State of North Carolina
Department of Environment, Health, and Natural Resources
Division of Solid Waste Management
P.O. Box 27687 · Raleigh, North Carolina 27611-7687

James G. Martin, Governor
William W. Cobey, Jr., Secretary

William L. Meyer
Director

September 28, 1989

Mr. Robert Morris
EPA NC CERCLA Project Officer
EPA Region IV Waste Division
345 Courtland Street, NE
Atlanta, Georgia 30365

Subject: Screening Site Investigation Report
General Wood Preserving Co., Inc. NCD093137636
Hwy. 74-76, Wood Treatment Road
Leland, Brunswick County, NC 28451

Dear Mr. Morris:

Please find attached the site investigation report for the subject site. Based on data collection and evaluation, and on analyses of samples taken from the site, we have concluded the following:

General Wood Preserving Co., Inc., (GWP Co.) is located near the town of Leland, in Brunswick County, North Carolina. The site was developed by Burke-Parsons-Bowlby Corp. (BPB Corp.) in 1979 as a wood preserving facility. The property was an undeveloped wooded area when the facility was built. In August of 1984, the facility was sold to General Wood Preserving Co., Inc. The property consists of approximately 120 acres, of which approximately the western half has been developed for wood treatment and storage. The remainder of the property is undeveloped and wooded.

The facility was designed to be a complete recycle, non-discharge facility that would effectively contain all toxic and hazardous chemicals used in the treatment process. Under BPB Corp., however, an increase in production, poor operating procedures, spills, and alleged improper waste disposal all helped to contribute to documented soil, groundwater and surface water contamination. Several consent agreements were reached with the State of North Carolina and BPB Corp. funded remedial work at the site. After the Mr.

Robert Morris
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facility was sold to General Wood Preserving Co., the new owners appeared to have improved operating conditions. However, in April of 1988, acting in response to a complaint from a former employee that alleged improper waste disposal, state investigators took samples from five areas and found contamination from PCP, Arsenic, Chromium, and creosote constituents. GWP Co. was subject to a Compliance Order with civil penalty assessment in October of 1988. In addition, a criminal investigation was launched by Federal officials. A judgement was entered against General Wood Preserving Co. on February 15, 1989 and a penalty was assessed. GWP Co. is paying this fine in installments and has retained Westinghouse Environmental Services to perform work required by the Compliance Order.

The site has been inspected and sampled several times by personnel from the NC Solid Waste Management Division. For this reason, personnel from the NC Superfund Section did not conduct a site investigation visit. All sample data presented in this report are from sample results from the former inspections.

Groundwater, from private wells and community well systems, is the only source of drinking water available to a portion of the residents within three miles of the site. The population utilizing groundwater from wells located within three miles of the site is estimated at 496 individuals. Within the 3 to 4 mile radius, an estimated 882 individuals utilize groundwater obtained from wells for their drinking water. The remainder of the adjacent population is served by the Leland Sanitary District, which provides surface water purchased from Brunswick County, whose intake is located on the Cape Fear River far upstream of the site.

The site area is drained by the Cape Fear River and its tributaries, including Sturgeon Creek. Sturgeon Creek flows 5.5 miles to the Brunswick River, which flows five miles to the Cape Fear River. A 4.5 mile segment of the Cape Fear River completes the fifteen mile length. There are no drinking water intakes along the fifteen path length mile segment downstream of General Wood Preserving Co.; the only drinking water intakes in Brunswick County are located twenty miles upstream of the site.

General Wood Preserving Co. is an operating facility that is apparently in sound financial condition. The site has been, and continues to be, under close supervision by the state regulatory agency that handles RCRA facilities, the North Carolina Hazardous Waste Section. The contamination that was discovered in 1981 when the facility was under Mr.

Robert Morris
September 28, 1989
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previous management was remediated with State approval. The contamination that was recently discovered, in 1988, is being investigated under a compliance order issued by the State of North Carolina. For these reasons, it is recommended that the site be deferred to the RCRA program.

If you have any questions, please call me at (919) 733-2801.

Sincerely,



John P. McConney
Environmental Chemist
NC Superfund Section

JM/genwo.sil

NORTH CAROLINA

DEHNR/DSWM

RM
10/02/89
LSLE

- Need better est. of
waste quant.
- Get a list of RCRA actions
on site

General Wood Preserving Company NCD093137636 Screening Site Investigation

September 1989

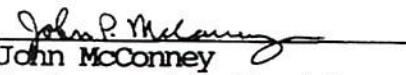
By: John P. McConney
Environmental Chemist
Superfund Section

Screening Site Investigation

General Wood Preserving Company
NCD093137636
Leland, Brunswick County

Superfund Section
Solid Waste Management Division

Prepared by:


John McConney
Environmental Chemist

Reviewed by:


Grover Nicholson
Geologist

Executive Summary

General Wood Preserving Co., Inc., (GWP Co.) is located near the town of Leland, in Brunswick County, North Carolina. The site was developed by Burke-Parsons-Bowlby Corp. (BPB Corp.) in 1979 as a wood preserving facility. The property was an undeveloped wooded area when the facility was built. In August of 1984, the facility was sold to General Wood Preserving Co., Inc. The property consists of approximately 120 acres, of which approximately the western half has been developed for wood treatment and storage. The remainder of the property is undeveloped and wooded.

The facility was designed to be a complete recycle, non-discharge facility that would effectively contain all toxic and hazardous chemicals used in the treatment process. Under BPB Corp., however, an increase in production, poor operating procedures, spills, and alleged improper waste disposal all helped to contribute to documented soil, groundwater and surface water contamination. Several consent agreements were reached with the State of North Carolina and BPB Corp. funded remedial work at the site. After the facility was sold to General Wood Preserving Co., the new owners appeared to have improved operating conditions. However, in April of 1988, acting in response to a complaint from a former employee that alleged improper waste disposal, state investigators took samples from five areas and found contamination from PCP, Arsenic, Chromium, and creosote constituents. GWP Co. was subject to a Compliance Order with civil penalty assessment in October of 1988. In addition, a criminal investigation was launched by Federal officials. A judgement was entered against General Wood Preserving Co on February 15, 1989 and a penalty was assessed. GWP Co. is paying this fine in installments and has retained Westinghouse Environmental Services to perform work required by the Compliance Order.

The site has been inspected and sampled several times by personnel from the NC Solid Waste Management Division. For this reason, personnel from the NC Superfund Section did not conduct a site investigation visit. All sample data presented in this report are from sample results from the former inspections.

Groundwater, from private wells and community well systems, is the only source of drinking water available to a portion of the residents within three miles of the site. The population utilizing groundwater from wells located within three miles of the site is estimated at 496 individuals. Within the 3 to 4 mile radius, an estimated 882 individuals utilize groundwater obtained from wells for their drinking water. The remainder of the adjacent population is served by the Leland Sanitary District, which provides surface water

purchased from Brunswick County, whose intake is located on the Cape Fear River far upstream of the site.

The site area is drained by the Cape Fear River and its tributaries, including Sturgeon Creek. Sturgeon Creek flows 5.5 miles to the Brunswick River, which flows five miles to the Cape Fear River. A 4.5 mile segment of the Cape Fear River completes the fifteen mile length. There are no drinking water intakes along the fifteen path length mile segment downstream of General Wood Preserving Co.; the only drinking water intakes in Brunswick County are located twenty miles upstream of the site.

General Wood Preserving Co. is an operating facility that is apparently in sound financial condition. The site has been, and continues to be, under close supervision by the state regulatory agency that handles RCRA facilities, the North Carolina Hazardous Waste Section. The contamination that was discovered in 1981 when the facility was under previous management was remediated with State approval. The contamination that was recently discovered, in 1988, is being investigated under a compliance order issued by the State of North Carolina. For these reasons, it is recommended that the site be deferred to the RCRA program.

1.0 Background

1.1 Location

The General Wood Preserving Co., Inc., (GWP Co.) is located near the city of Leland, Brunswick County, North Carolina. The county code is 10 and this is in the Seventh Congressional District. The longitude is 078° 04' 30" West and the latitude is 34° 15' 00" North (10).

1.2 Site Layout

General Wood Preserving Co. is located in a rural area. The property consists of approximately 120 acres, of which approximately the western half has been developed for wood treatment and storage. The remainder of the property is primarily wooded and is undeveloped. Surface drainage from the developed portions of the property is to a series of railroad drainage ditches which bound the property to the north and east of the site. Most of the land surrounding the property is undeveloped, with the exception of a chemical facility and adjoining spray irrigation field to the west and several small businesses located between the General Wood site and the highway (4).

1.3 Ownership and Site Use History

The site was developed by Burke-Parsons-Bowlby Corp. (BPB Corp.) in 1979 as a wood preserving facility. The property was an undeveloped wooded area when BPB Corp. built the facility. In August of 1984, the facility was sold to General Wood Preserving Co., Inc., the current operator (4).

The manufactured product includes treated lumber and poles used for foundation piles, utility poles, pier construction, and similar uses. Some railroad ties are also treated at the site. The wood treatment process includes debarking, trimming and classifying the logs, reducing the moisture content by either a steam kiln or by vacuum, and treating the poles under pressure with chemical preservatives. The preservatives used at this facility are creosote, pentachlorophenol (PCP) and copper-chromium-arsenic (CCA) solution (4).

The facility was designed to be a complete recycle, non-discharge facility that would effectively contain all toxic and hazardous chemicals used in the treatment process. The treatment vessels are equipped with a vacuum system which recovers the treatment liquid and returns it to: a process make up tank, the treatment room floor, or to the

tank farm containment area. The liquid from the sumps located in the treatment area is also pumped to one of the above-mentioned areas. The liquid is then piped to an evaporator pit where it is heated to remove water and is then returned to a process tank (4).

Under BPB Corp., however, an increase in production, poor operating procedures, spills, and alleged improper waste disposal all helped to contribute to documented soil, groundwater and surface water contamination. Inspection visits by state officials found evaporation vats overflowing onto the ground, puddles containing PCP with levels as high as 11,000 mg/l surrounding said evaporation vats, and soil contaminated with chromium, arsenic, and PCP surrounding the treatment building and evaporation vats. In July 10, 1981, a spill in the loading area of the facility released approximately 2,000 gallons of Sodium Dichromate. This spill was not reported immediately to the state regulatory authorities as required. An earlier spill of 50 gallons of Sodium Dichromate, which was reported, occurred on March 30, 1981. Surface water samples taken from the nearby water body, Sturgeon Creek, showed levels of Arsenic and Chromium in excess of water quality standard limits. Evidence of diesel fuel and PCP were also found in this water body. Groundwater samples taken indicated the presence of pollutants related to wood preservative chemicals in the aquifer beneath the site (4).

When the facility was sold to General Wood Preserving Co., the new owners appeared to have improved operating conditions. However, in April of 1988, acting in response to a complaint from a former employee that alleged improper waste disposal, state investigators took samples from five areas and found contamination from PCP, Arsenic, Chromium, and creosote constituents. The areas sampled were near the treatment building, the kiln, an old impoundment site and a junkpile. In addition, approximately 37 drums that were later shown to contain hazardous waste were found in a scrap yard area. The condition of these drums ranged from open topped to crushed or corroded (4).

1.4 Permit/Regulatory History and Remedial Actions to Date

General Wood Preserving Co., Inc., currently has status under RCRA as a generator with ID Number NCD 093 137 636. The facility does not have a NPDES permit or any other permits (4).

Under BPB Corp. the first application for RCRA status was made on June 1, 1979 for listing as a generator and a Treatment, Storage and Disposal Facility (TSDF). On August 27, 1984, the facility and its ID number were transferred to General Wood Preserving Co., Inc. On July 24, 1986, the listing for General Wood Preserving Co., Inc., was changed

to generator only (4).

Due to the aforementioned spill of approximately 2000 gallons of Sodium Dichromate on July 10, 1981, several consent agreements were reached with the State of North Carolina. The contaminated soil, estimated at 2200 cubic yards, was removed from the loading area where the spill occurred and was put in an impoundment area with a plastic liner and top at BPB Corp. expense. A consent agreement was entered into on February 16, 1983, and required BPB Corp. to build a concrete containment structure in their loading area. This containment structure was to be sufficient to hold 5,600 gallons of liquid material and was to be funded by BPB Corp. In addition, the BPB Corp. was to pay a fine of \$3,000 (4).

Following leachate tests, solidification was chosen as the remedial option for the contaminated soil. A construction contract was signed on September 9, 1983 to: excavate the contaminated soil from the impoundment, spread and level this material on previously stabilized soil, till cement into this material, and allow this mixture to cure until concrete with a strength of 2000 psi. was formed. This remedial work was to be funded by BPB Corp. and was approved by the State of North Carolina on March 23, 1984. A consent agreement was entered into on May 7, 1984, requiring BPB Corp. to install groundwater monitoring wells and to monitor groundwater on a quarterly basis. Monitoring was to continue until BPB Corp. could demonstrate statistically that the groundwater was not contaminated. On September 11, 1985, the State of North Carolina informed BPB Corp. that the obligations in the consent order had been fulfilled (4).

An investigation by State officials in April of 1988 documented the site deficiencies of the facility under General Wood Preserving Co. management. These deficiencies included five areas of improper waste disposal: a scrapyard containing improperly maintained drums, a junkyard, the old impoundment area, a ditch beside the kiln, and the ditch leading from the treatment building. Other deficiencies included the lack of a site waste analysis plan, a closure plan, and liability coverage. These deficiencies demonstrated that General Wood Preserving Co. was not maintaining the site in a manner consistent with proper operating procedures. GWP Co. was subject to a Compliance Order with civil penalty assessment in October of 1988. In addition, a criminal investigation was launched by Federal officials. A judgement was entered against General Wood Preserving Co on February 15, 1989 and a penalty was assessed. GWP Co. is paying this fine in installments and has retained Westinghouse Environmental Services to perform work required by the Compliance Order (4).

1.5 Summary Trip Report

A site investigation visit of General Wood Preserving Co. was not conducted by North Carolina Superfund Section personnel. Officials from the North Carolina Hazardous Waste Section, which handles the RCRA facilities, have conducted numerous inspections of the facility. All sample data presented in this report was gathered from sample results from these inspections.

2.0 Environmental Setting

2.1 Topography

General Wood Preserving Co. is located in Brunswick County, North Carolina. Brunswick County is located in the Coastal Plain, which is very low and flat. The highest points are located along the Cape Fear River, near the northeast corner of the county, and are roughly 80 feet above sea level. About one-fifth of the county is occupied by swampy, poorly drained land subject to seasonal flooding. Wide tidal swamps border the short meandering streams that drain areas adjacent to the coast (18). The site drains approximately 1000 feet to an unnamed tributary (UT) of Sturgeon Creek (10). The site itself is essentially level, with a slope of 0% (10). The intervening terrain drops 10 feet in 1,000 feet, which yields a slope of 1.0% (10).

2.2 Surface Waters

The site area is drained by the Cape Fear River and its tributaries, including Sturgeon Creek (18). Sturgeon Creek flows 5.5 miles to the Brunswick River, which flows five miles to the Cape Fear River. A 4.5 mile segment of the Cape Fear River completes the fifteen mile length (10). There are no drinking water intakes along the fifteen path length mile segment downstream of General Wood Preserving Co.; the only drinking water intakes in Brunswick County are located twenty miles upstream of the site (21).

Sturgeon Creek is classified as a Class C Sw water body and is suitable for fish and wildlife propagation, secondary recreation and agriculture. The Sw classification indicates waters which have low velocities and other natural characteristics which are different from adjacent streams (11). Along this creek there is seasonal fishing for largemouth bass, sunfish and bass. There is boating associated with fishing but little recreational boating and no swimming. Public access is available with one commercial boat ramp (22,23). The Brunswick River is classified as a SC water body and is suitable for fish and wildlife propagation, and secondary recreation (11). The Brunswick River has some sport fishing and commercial fishing such as crabpots, net fishing, and hook and line fishing (23). The Cape Fear River is classified as a SA water body and is suitable for shellfishing for market purposes, primary and secondary recreation, and fish and wildlife propagation (11). The Cape Fear River has quite a bit of commercial fishing including shellfish, shad and mullet (23). In 1987, a total of 704,211 pounds of shellfish and 52,744 pounds of finfish were taken from the Cape Fear River (25).

2.3 Geology, Soils and Groundwater

The basement rocks that underlie the area are present at a depth of approximately 1500 feet in southern Brunswick County. These basement rocks consist of gneiss, schist, granite and metavolcanics. These have a slope of about 20 feet per mile along a line from Elizabethtown to Fort Caswell, just southwest of Southport (18).

The Tuscaloosa Formation, of the Late Cretaceous age, is the oldest sedimentary formation in the area and lies unconformably on the basement rock. This formation consists of interbedded sands and clays and is presumed to hold salty water. The sand beds are poorly sorted and arkosic, have a micaceous clay matrix, and are lenticular. They form only a small part of the total section. The clay beds are massive and less lenticular than the sands, and predominate in vertical well sections (18).

The Black Creek Formation, of the Late Cretaceous age, lies unconformably on the Tuscaloosa. This formation is composed of dark-gray fine-grained sandy clay and very fine to very coarse sand; however, the larger part of the formation is composed of clay and sandy clay. The sand occurs as intercalations, a few inches to 30 feet or more in thickness, between the layers of clay. This is not an important aquifer in the area surrounding the site (18).

The Peedee Formation, of the Late Cretaceous age, consists of layers of fine- to medium-grained glauconitic sand and indurated beds of marl. The beds of marl, some of which are limy and cavernous, are associated with the layers of glauconitic sand. The thickness of the Peedee ranges from about 400 feet in the northwestern part of the county to nearly 900 feet in the southeastern part of the county. This is an important aquifer in the area around the the site (18).

The older formations are covered by surficial deposits that are probably of Pleistocene age. These deposits are uneven in thickness and distribution (18). In the area directly underneath the site this surficial deposit is estimated to be between 10-20 feet deep and consists of tan, brown, slightly silty, fine-grained sand, with little very fine-grained sand, roots, thin organic rich seams and local concretions (4). The surficial deposits are important as an aquifer throughout the area. Most domestic wells and a few industrial wells are finished in these deposits. Water levels in the surficial deposits are generally a few feet below the surface (18). Data from wells located on the site property indicate that the water level is approximately 3 feet BLS (4).

Groundwater in the area surrounding the site is mostly drawn from the surficial deposits and from the upper part of the Peedee formation. There is only one aquifer of concern; this starts in the surficial deposits and extends down into the upper part of the Peedee formation. Wells deeper than 90 feet encounter brackish water (18). According to the well logs of one of the local well drilling companies, Skipper Drilling Co., the average depth of wells in the Leland area is 15-40 feet, with a maximum depth of 50-60 feet. The chloride content of the deeper wells makes these unsuitable for drinking water. The productive layer is a coarse sand with clay stringers interspersed throughout; however, these clay stringers do not constitute a consistent confining layer (15). Logs from test bore holes drilled by Westinghouse Environmental Services do not show the presence of a consistent confining layer beneath the site property (4). The water obtained from the surficial deposits generally is suitable for all purposes. A chemical analysis of water from a well near Navassa, located approximately four miles from the site, show results within water quality standards (18).

2.4 Climate and Meteorology

Seasonal Temperatures:	(°F)	January	July
	Mean Max.	58	89
	Mean Min.	38	70
	Mean	48	80

Precipitation: (inches) Mean Annual Precipitation: 54
 Mean Annual Evaporation: 42
 Net Annual precipitation: 12
 Mean Annual snowfall: <2
 One year 24-hr. rainfall: 3.75

Storm Events: Mean days/year with thunderstorms: 50
 Prevailing winds and wind speeds: S at 12
 (1,2)

In 1979, the annual emissions inventory for this area was: particulates at 4,206 tons, sulfur dioxide at 16,900 tons, carbon monoxide at 27,812 tons, volatile organic compounds and hydrocarbons at 32,644 tons and nitrogen oxides at 6,236 tons (24).

2.5 Land Use and Population Distribution

General Wood Preserving Co. lies near the town of Leland, in a rural area which is sparsely populated. Most of the land surrounding the property is undeveloped, with the exception of a chemical facility and adjoining spray irrigation field to the west and several small businesses located between the site and the highway. Brunswick County has a population of 49,631 individuals in 860 square miles,

which yields a population density of 58 individuals per square mile (13,14).

2.6 Water Supply

Groundwater, from private wells and community well systems, is the only source of drinking water available to a portion of the residents within three miles of the site. The population utilizing groundwater from wells located within three miles of the site is estimated at 496 individuals (17). Within the 3 to 4 mile radius, an estimated 882 individuals utilize groundwater obtained from wells for their drinking water (17). The nearest well is located 2500 feet from the site (10). These figures are based on a house count using USGS topographic quadrangles and information provided by the nearby towns and the North Carolina Public Water Supply Branch. The remainder of the population is served by the Leland Sanitary District. This Sanitary District obtains its water from Brunswick County, which has a water intake on the Cape Fear River. This Brunswick County drinking water intake is located far upstream of the site and is not threatened by the site (7).

2.7 Critical Environments

There are no five-acre wetlands located downstream within two path-length miles of the site (10). There are no critical habitats of an endangered or threatened species within one mile. There are four critical habitats within NC; the nearest is approximately 25 miles from the site (3).

3.0 Waste Types and Quantities

3.1 Waste Quantities

The amount of waste onsite could not be determined.

3.2 Waste Disposal Methods and Locations

This facility was designed to be a complete recycle, non-discharge facility that would effectively contain all toxic and hazardous chemicals used in the treatment process. Under BPB Corp., poor operating procedures and a large spill caused documented soil, groundwater and surface water contamination. Contaminated soil from the aforementioned spill was stored in a plastic lined impoundment until the remedial action, solidification, took place (4).

After the facility was transferred to General Wood Preserving Co., operating procedures appeared to have been improved. However, in 1988, acting in response to a complaint from a former employee alleging improper waste disposal, investigators from the State of North Carolina documented five areas of improper waste disposal on the facility grounds. Documented soil contamination resulted from this improper waste disposal. At this time, groundwater and surface water contamination has not been documented. In accordance with the terms of the compliance order, GWP Co. has retained Westinghouse Environmental Services to conduct a groundwater and subsurface soil investigation (4).

3.3 Waste Types

The wood preserving materials used at this facility include Pentachlorophenol (PCP), Creosote, and Copper-Chromium-Arsenic solution (CCA). Hazardous waste generation includes K001 bottom sediment sludge from the operation of the PCP and creosote treatment operations (4).

4.0 Laboratory Data Summary

4.1 Inorganic Results

Four areas of the facility were sampled: the junkyard area, an old open drum in a scrapyard area, a ditch beside the treatment building, and the old impoundment area, with two samples taken from this area. No background soil sample was taken. Two of these areas contained contamination that exhibited the characteristics of EP Toxicity: the sample from the junkyard area contained Arsenic at 11 mg/l; the first sample from the old impoundment area contained Chromium at 16 mg/l and the second sample from this area contained Arsenic at 20 mg/l and Chromium at 9.4 mg/l.

(The maximum concentration of contaminants for characteristic of EP Toxicity for Arsenic and Chromium is 5.0 mg/l.)

4.2 Organic Results

Four areas of the facility were sampled: the junkyard area, the old impoundment area, the ditch leading from the treatment building and the ditch beside the kiln. No background soil sample was taken. Pentachlorophenol (PCP) was present in samples taken from two of the areas: in the ditch leading from the treatment building, present at 244 ppm, and in the ditch beside the kiln, present at 190 ppm. Contaminants indicative of creosote contamination were present in three of the samples. These contaminants included naphthalene and anthracene, among others. The sample from the old impoundment area contained fifteen compounds, present in amounts that ranged from 50 ppm to 2720 ppm. The samples from the ditch leading from the treatment building and the ditch beside the kiln contained sixteen compounds each, present in amounts that ranged from 35 ppm to 244 ppm. The sample taken from the junkyard area contained five compounds, including fluoranthene and pyrene, that were present in low amounts, ranging from 1 ppm to 6 ppm.



North Carolina Department of Human Resources
Division of Health Services
P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor
David T. Flaherty, Secretary

Ronald H. Levine, M.D., M.P.H.
State Health Director

April 28, 1989

Mr. Robert Morris
EPA NC CERCLA Project Officer
Air and Hazardous Material Division
345 Courtland Street, NE
Atlanta, GA 30365

Subject: Preliminary Assessment Reassessment
General Wood Preserving Co., Inc. NCD093137636
Wood Treatment Road
Leland, Brunswick County, NC 28451

Dear Mr. Morris:

General Wood Preserving Co., Inc. is located near the city of Leland, Brunswick County, NC. The County Code is 10 and this is in the Seventh Congressional District. The longitude is 078 04 30 and the latitude is 34 15 00.

Site Description

This site was developed by Burke-Parsons-Bowlby Corp. (BPB Corp.) in 1979 as a wood preserving facility. The site was an undeveloped wooded area when BPB Corp. built the facility. In August of 1984, this facility was sold to General Wood Preserving Co., Inc., who has operated it ever since. This facility pressure treats lumber and poles using either copper-chromium-arsenic (CCA), pentachlorophenol (PCP) or creosote treatment.

Disposal History

This facility was designed to be a complete recycle, non-discharge facility that would effectively contain all toxic and hazardous chemicals used in the treatment process. Under BPB Corp., however, an increase in production, poor operating procedures and an accidental spill of Sodium Dichromate, as well as alleged improper waste disposal, caused documented ground-water and surface water contamination.

A consent agreement was reached with the State of NC, the contaminated soil was chem-fixed with concrete and four monitoring wells were installed by Law and Co. When the facility was sold to General Wood Preserving Co. in 1984, the consent agreement was maintained and the new owners appeared to have improved site conditions. However, in 1988, acting in response to a complaint from a former General Wood Preserving Co. employee that alleged improper waste disposal, investigators took samples from five areas and found contamination from Pentachlorophenol, Arsenic, Chromium and Creosote constituents. In addition, numerous drums containing suspected hazardous waste were found in a scrap yard. Some of these drums were open, crushed and/or corroded. Analysis of samples taken from these drums proved these to contain waste. A criminal investigation was launched and civil fines assessed. Westinghouse Environmental Services has been retained to conduct a ground water monitoring program by General Wood Preserving Co (4).

Geology

The site is in Brunswick County, NC. This county lies entirely within the Coastal Plain and is low and flat. The oldest sedimentary formation in this area is the Tuscaloosa Formation of Late Cretaceous age. Where present, the Tuscaloosa is presumed to contain salty water and is not used as an aquifer. Overlying the Tuscaloosa is the Black Creek Formation which consists mostly of clay but contains subordinate layers of fine sand and marl. The Pee Dee formation lies conformably on the Black Creek formation and underlies much of the county north of the coast. The Castle Hayne Limestone of Eocene age overlies the Pee Dee formation in a discontinuous layer in the Leland-Navassa area. Surficial deposits, probably of Pleistocene age, cover the older formations over much of Brunswick County (18).

Groundwater Target Summary

A portion of the surrounding population is supplied by a municipal water distribution system, the Leland Sanitary District. This Sanitary District obtains its water from Brunswick County, which has a water intake on the Cape Fear River. This source is far upstream of the site and is not threatened by the site (7). The remainder of the surrounding population, estimated at 1380 individuals, utilize ground water as their primary drinking water source (16,17). There is apparently only one aquifer of concern in this area; the depth to the water table is roughly 3 feet and this extends to an impermeable layer, the Pee Dee Formation, whose depth varies (12,18). According to Larry Skipper of Skipper Drilling Co., the average depth of wells in the Leland area is 15-40 feet, with a

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maximum depth of 50-60 feet. The Chloride content of the deeper wells makes these unsuitable for drinking water. The productive layer is a coarse sand with clay stringers interspersed throughout; these clay stringers do not constitute a consistent confining layer (15). Because most users draw from the Castle Hayne and surficial aquifers and because of lack of evidence of an aquitard between surficial and Castle Hayne, this area is treated as having one aquifer of concern.

Surface Water Target Summary


The annual precipitation of this area is 54 inches and the annual evaporation is 42 inches, which yields a net annual precipitation of 12 inches (1). The one-year annual rainfall is 3.75 inches (2). This site drains 1000 feet to a unnamed tributary (UT) of Sturgeon Creek. This Creek is classified as a Class C Swamp Water (SW) water body; that is, this is suitable for uses of lower quality including secondary recreation, fish and wildlife propagation and agriculture. This stream flows into the Brunswick River and this flows into the Cape Fear River, with both of these bodies of water being classified as Class SC, tidal salt water suitable for uses of lower quality (11). Therefore, there are no water intakes within 15 path-length miles of the site. The facility and intervening terrain are essentially flat, with the terrain dropping only 10 feet in 1000 feet, which yields a slope of 1.0% (10). No critical habitats of federally listed endangered species are located within one mile of this site. The nearest critical habitat located within NC is approximately 230 miles or more from the site (3). No areas considered to be wetlands are within two miles of the site (10).

Recommendation

Due to the toxic and persistent nature of the contaminants, the documented groundwater and surface water contamination and the fact that the aquifer of concern in the area is shallow, a medium priority for the site is recommended.

If you have any questions, please contact me at (919) 733-2801.

Sincerely,



John P. McConney, Environmental Chemist
Solid Waste Management Section
NC Superfund Branch

GROUND WATER MONITORING PLAN
General Wood Preserving Company
Leland, North Carolina
Westinghouse Job No. 4112-88-118

Prepared for:

General Wood Preserving Company
Leland, North Carolina

Prepared by:

Westinghouse Environmental Services
P.O. Box 1308
Cary, North Carolina 27512

April, 1989



SECTION 2

SUBSURFACE INVESTIGATION

The subsurface investigation outlined in the General Wood "Subsurface Investigation Plan" entailed the completion of three soil borings at the site. The borings were completed on February 22-23, 1989. The borings provided information on the subsurface soils and hydrogeologic conditions which was used to design the ground water monitoring system.

2.1 SOIL BORINGS AND SITE LITHOLOGY

Five lithologic units were identified using the boring log data. Sand was the predominant sediment encountered during drilling. The surficial unit was tan to brown, slightly silty, mostly fine-grained, organic-rich sand with local occurrences of concretions. This unit was 13 to 20 feet thick.

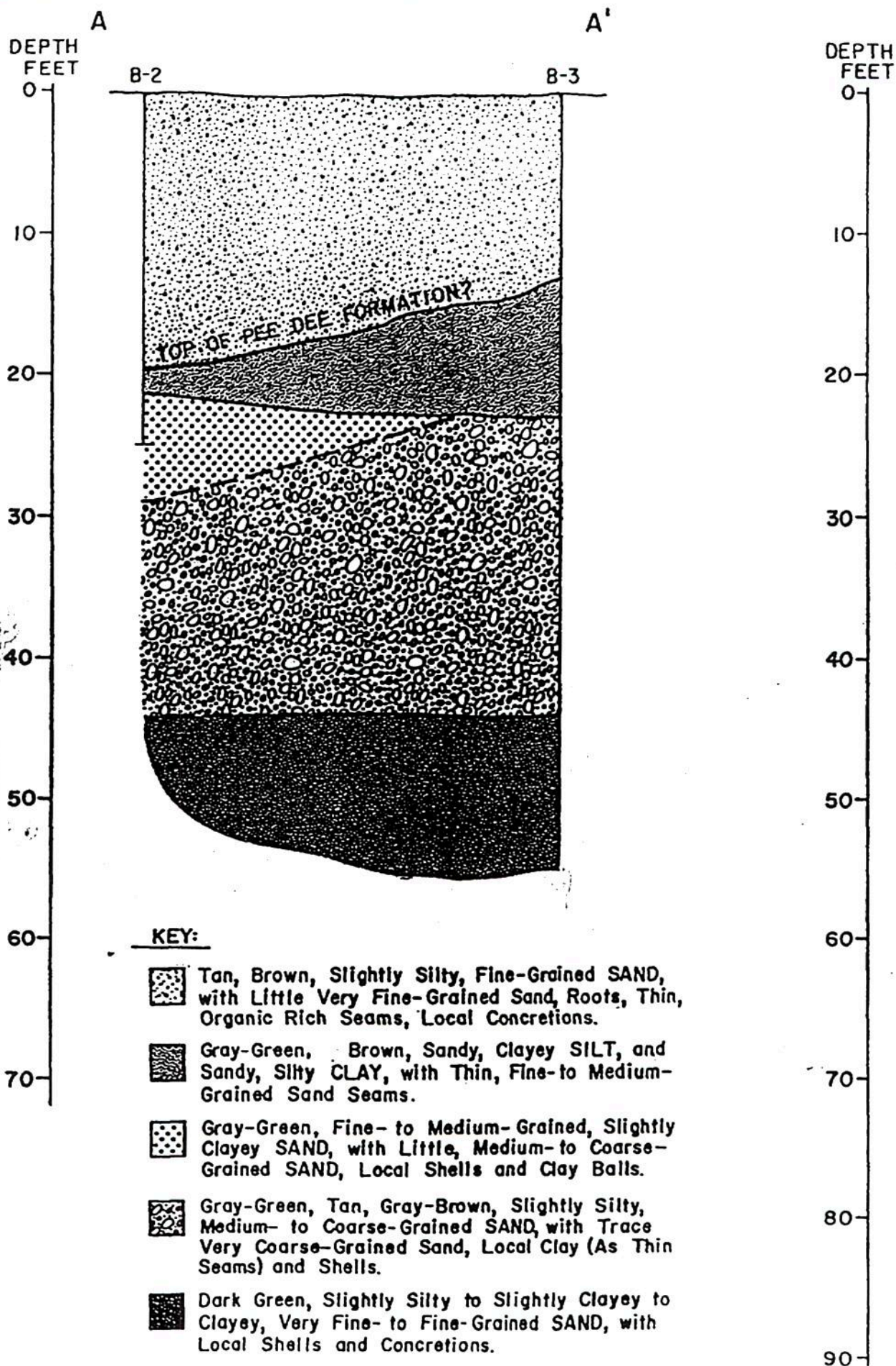
Underlying this sand was a gray-green to brown, sandy, clayey silt to silty, sandy clay with thin interbedded sand seams. This unit was 1.5 to 10 feet thick.

Underlying the silt/clay unit was a gray-green, slightly clayey, fine- to medium-grained sand with local occurrences of shells and clay balls. The unit was 15.5 feet thick in B-1, of undetermined thickness in B-2, and absent in B-3.

Underlying this unit was a layer of gray-green, tan, gray-brown slightly silty, medium- to coarse-grained sand with local occurrences of thin clay seams and shells. This unit was 23 feet thick in B-1 and 21 feet thick in B-3.

The basal soil unit seen in borings B-1 and B-3 was a layer of dark green, slightly silty to slightly clayey to clayey, very fine- to fine-grained sand with local occurrences of shells and concretions. In boring B-1 two hard zones were





B-1

B-3

TOP OF PEE DEE FORMATION?

SCALE:

HORIZONTAL 1" = 200'

VERTICAL 1" = 10'

CROSS SECTIONS A-A' AND B-B'



Westinghouse

Environmental Services

GENERAL WOOD
PRESERVING CO.
LELAND, N. C.

DRAWN BY:
MCJ

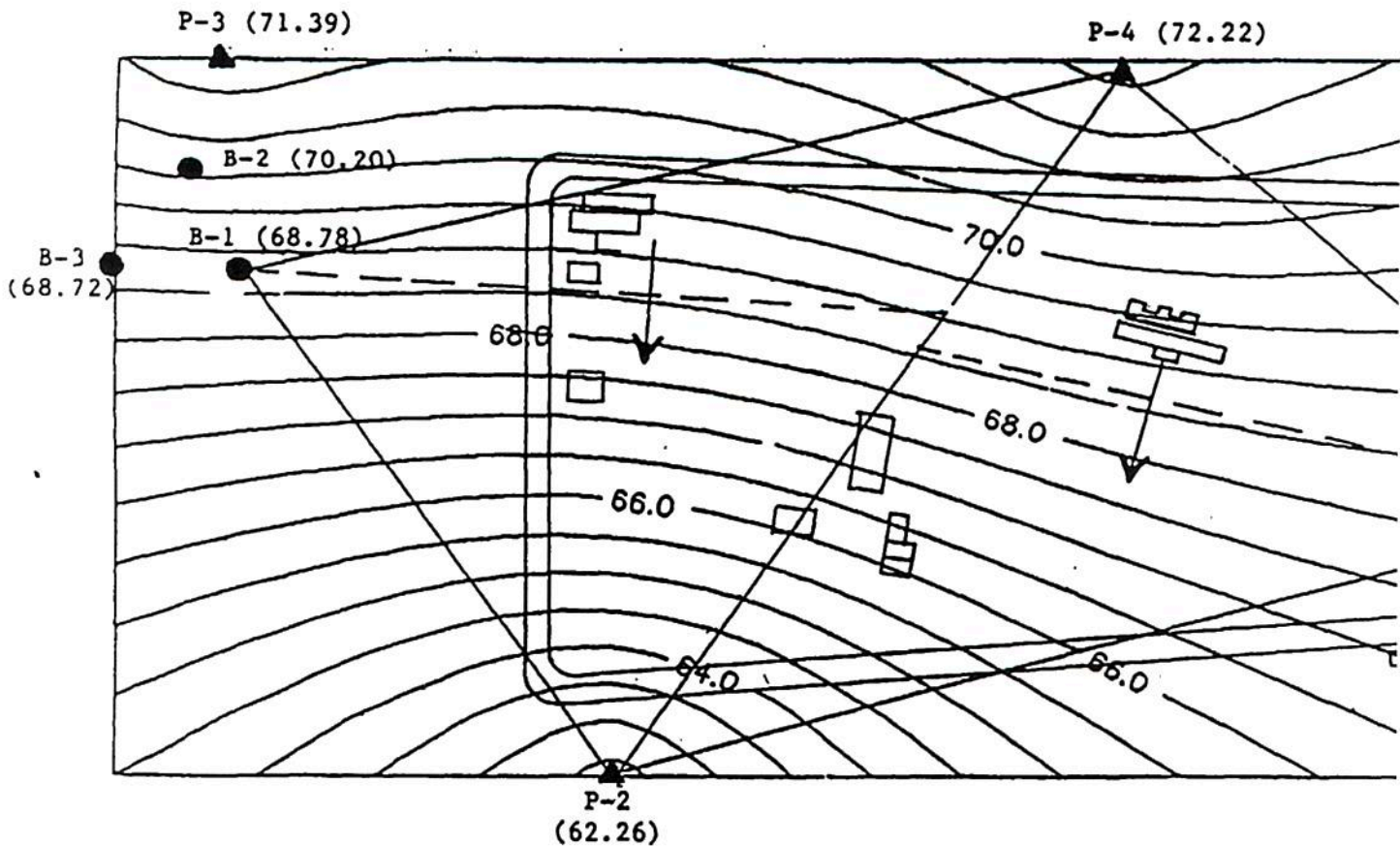
CHECKED BY:

JOB NO.:
4112-88-118

DATE:
3/89

SCALE:
AS SHOWN

FIGURE:
2



KEY:

- Well
- ▲ Piezometer
- Ground Water Flow Direction

NOTE:

WATER TABLE CONTOURS AND FLOW DIRECTION MAP
(9/6/88)

PROJECT

GENERAL WOOD PRESERVING CO.
LELAND, N. C.



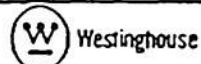
Westinghouse

SCALE

JOB

FIG NO

TEST BORING - WELL CONSTRUCTION LOG



PROJECT Pole Site						BORING NO. B-1	
CLIENT General Wood Preserving Company						SHEET 1 OF 4	
DRILLING CONTRACTOR S&ME						JOB NO. 4112-88-118	
PURPOSE Exploratory Borings						ELEV. MP	CR
GROUND WATER				CASING	SAMPLE	CORE	WELL
DATE	TIME	DEPTH	CASING	TYPE			DATUM
				DIAMETER			STARTED 2/22/89
				WEIGHT			COMPLETED 2/22/89
				FALL			DRILLER E. Mosely
						GEOLOGIST B. Hayes	

Depth Feet	Sample Number	Blows per 6"	WELL CONSTRUCTION	IDENTIFICATION	REMARKS
					Hnu Readings (ppm)
	1			Gray Brown Slightly Silty Fine to Medium SAND with Large Wood Fragments.	Auger to 8.5'
					Wet at 3.5'
5	2	9 23 49		Very Dense Dark Brown Slightly Silty Medium to Fine SAND with Root Mat	3
	3	26 43 40		Very Dense Red Brown to Dark Brown Slightly Silty Medium to Fine SAND with Organics and Thin Clay Seams (1/8")	3
10	4	5 10 15		Medium Dense Yellow Brown Slightly Silty Fine to Very Fine SAND with Thin Clay Seams (1/16")	Begin Washbore 0
	5	9 15 22		Dense Yellow Brown Slightly Silty Fine to Very Fine SAND with Thin Organic Rich Clay Seams (1/16")	0
15	6	4 2 6		Loose Gray Green Silty Fine SAND Interbedded with Sandy CLAY	0
	7	5 8 9		Medium Dense Gray Green Slightly Clayey Silty Fine SAND	0
20	8	4 7 10		Medium Dense Gray Green Slightly Clayey Silty Fine SAND	0

TEST BORING / WELL CONSTRUCTION LOG



PROJECT: Pole Site

BORING NO.: B-1

SHEET 2 OF 4

CLIENT: General Wood Preserving Company

JOB NO.: 4112-88-118

DEPTH FEET	SAMPLE NO.	BLOWS PER 6"	WELL CONSTRUCTION	IDENTIFICATION	REMARKS Hnu Readings (ppm)
	9	5 11 18		Medium Dense Dark Gray Green Slightly Clayey Fine SAND with Seams of Coarse SAND	0
	10	4 4 3		Loose Dark Gray Green Slightly Clayey Fine SAND with Clay Balls	0
25	11	6 7 6		Medium Dense Dark Gray Green Slightly Clayey Silty Medium to Fine SAND	0
	12	1 1 4		Loose Gray Green Clayey Fine to Medium SAND with Clay Seams and Trace Shell Fragments	0
30	13	14 13 4		Medium Dense Tan Well Sorted Coarse SAND	0
	14	3 4 6		Medium Dense Light Gray Green Slightly Silty Medium to Coarse SAND Poorly Sorted with Roots	0
35	15	17 40 50/4"		CLAY SEAM Very Dense Gray Green Slightly Clayey Silty Medium to Coarse SAND	0
	16	38 46 50/3.5"		Very Dense Tan Medium to Coarse SAND	0
40	17	35 50/4.5"		Very Dense Tan Medium to Coarse SAND	0
	18	40 50/5"		Very Dense Tan Medium to Coarse SAND	0
45					

TEST BORING / WELL CONSTRUCTION LOG



Westinghouse

PROJECT: Pole Site

BORING NO.: B-1

SHEET 3 OF 4

CLIENT: General Wood Preserving Company

JOB NO.: 112-88-118

DEPTH FEET	SAMPLE NO.	BLOWS PER 6"	WELL CONSTRUCTION	IDENTIFICATION	REMARKS Hnu Readings (ppm)
				Medium Dense Tan Coarse SAND	0
	19	19			
		10			
		16			
				Medium Dense Tan Coarse SAND	0
	20	4			
		8			
50		17		Dense Gray Green Slightly Clayey Medium to Fine SAND with Wood Fragments	0
	21	8			
		18		Dense Tan: Medium to Coarse SAND	0
		31			
				Medium Dense Tan Coarse SAND	0
	22	14			
		10			
55		12			
				Very Loose Dark Gray Green Slight- ly Clayey Very Fine to Fine SAND	0
	23	1/12"			
		1			
				Very Loose Coarse SAND	
	24	1			
		5		Medium Dense Dark Green Slightly Clayey Very Fine SAND	0
60		9			
	25	2		Loose Dark Green Slightly Clayey Very Fine to Fine SAND	0
		2			
		4			
				Loose Dark Green Slightly Clayey Very Fine to Fine SAND	0
	26	4			
		4			
65		6			
				Medium Dense Dark Green Slightly Clayey Very Fine to Fine SAND	0
	27	10			
		13			
		12			
				Very Dense Dark Green Slightly Clayey Very Fine to Fine SAND	0
	28	8			
		17			
70		50/3"			

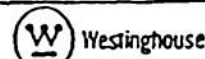
Westinghouse

SHEET 4 OF 4

JOB NO.: 4112-88-118

DEPTH FEET	SAMPLE NO.	BLOWS PER 6"	WELL CONSTRUCTION	IDENTIFICATION	REMARKS Hnu Readings (ppm)
				Hard Zone (Concretions)	
	29	15 22 34		Very Dense Dark Green Slightly Silty Slightly Clayey Very Fine to Fine SAND	0
				Hard Zone	
75	30	12 19 29		Dense Dark Green Slightly Clayey Very Fine to Fine SAND with Seams of Very Clayey SAND	0
	31	16 18 26		Dense Dark Green Slightly Clayey Very Fine to Fine SAND with Seams of Clayey SAND	0
	32	14 16 23		Dense Dark Green Slightly Silty to Clayey Very Fine to Fine SAND	0
80	33	27 19 25		Dense Dark Green Slightly Silty to Clayey Fine SAND with Shell Fragments and Concretions	0
	34	16 24 38		Very Dense Dark Green Silty to Clayey Very Fine to Fine SAND	0
85				Boring Terminated @ 85.0'	

TEST BORING - WELL CONSTRUCTION LOG



PROJECT Pole Site					BORING NO. B-2				
CLIENT General Wood Preserving Company					SHEET 1 OF 2				
DRILLING CONTRACTOR S&ME					JOB NO. 4112-88-118				
PURPOSE Exploratory Boring					ELEV. MP		CR		
GROUND WATER					CASING	SAMPLE	CORE	WELL	DATUM
DATE	TIME	DEPTH	CASING	TYPE					STARTED 2/23/89
				DIAMETER					COMPLETED 2/23/89
				WEIGHT				DRILLER E. Mosely	
				FALL				GEOLOGIST B. Hayes	

Depth Feet	Sample Number	Blows per 6"	WELL CONSTRUCTION	IDENTIFICATION	REMARKS
					Auger to 8.5'
	1	10 19 12		Medium Dense Tan Fine SAND	
	2	12 20 19		Medium Dense Dark Brown Slightly Silty Fine SAND with Organics Dense Dark Brown Slightly Silty Fine SAND with Organics	
5	3	11 25 42		Very Dense Dark Brown Slightly Silty Fine SAND with Organics and Concretions	
	4	15 11 13		Medium Dense Tan Yellow-Brown Slightly Silty Medium to Fine SAND with Thin Clay/Organic Seams (1/8")	Begin Washbore
10	5	10 10 10		Medium Dense Yellow Brown Slightly Silty Medium to Fine SAND	
	6	7 10 13		Medium Dense Yellow Brown Slightly Silty Medium to Fine SAND	
15	7	5 10 11		Medium Dense Brown Slightly Silty Medium to Fine SAND with Organic Seams	
	8	5 7 13		Medium Dense Brown Slightly Silty Medium to Fine SAND with Dark Nodules	
20					

TEST BORING / WELL CONSTRUCTION LOG



Westinghouse

PROJECT: Pole Site

BORING NO.: B-2

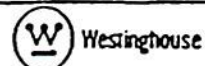
SHEET 2 OF 2

CLIENT: General Wood Preserving Company

JOB NO.: 4112-88-118

[illegible]

TEST BORING - WELL CONSTRUCTION LOG



PROJECT Pole Site						BORING NO. B-3	
CLIENT General Wood Preserving Company						SHEET 1 OF 3	
DRILLING CONTRACTOR S&ME						JOB NO. 4112-88-118	
PURPOSE Exploratory Boring						ELEV. ^{MP}	CR
GROUND WATER				CASING	SAMPLE	CORE	WELL
DATE	TIME	DEPTH	CASING	TYPE			DATUM
				DIAMETER			STARTED 2/23/89
				WEIGHT			COMPLETED 2/23/89
				FALL			DRILLER E. Mosely
						GEOLOGIST D. Allwine	

Depth Feet	Sample Number	Blows per 6"	WELL CONSTRUCTION	IDENTIFICATION	REMARKS
					Auger to 8.5'
	1	3		Dark to Medium Brown Mostly Fine Little Medium SAND, Trace Silt, Moist, Quartz.	
		3			
		4			
	2	4		Interlayered Dark Brown, Light Brown and Gray Fine SAND; Trace Silt, Trace Small Roots, Wet, Quartz.	
		7			
5		4			
	3	5		Dark Brown Fine SAND Little Silt, Some Roots (1/8"-1/4" diameter), Some Layers with Fine Organic Materials, Wet	
		5			
		4			
		8		Medium Brown Fine SAND, Trace Silt Trace Fine Root Material, Wet	Begin Washbore
	4	14			
10		16			
	5	11		Dark Brown Fine SAND, Trace to Little Silt, Wet, Organic Odor	
		13			
		14			
	6	4		Dark Brown SILT with Little Fine Sand, Organics, Small to Large Wood Shreds, Wet, Organic Odor	
		3			
15		2			
	7	1		Dark Brown, Fine Sandy Clayey SILT to Fine Sandy Silty CLAY	
		2			
	8	6		Gray Green Very Fine Sandy Clayey SILT with Upper Layer of Gray Brown Fine to Medium SAND, Wet	
		5			
20		2			

TEST BORING / WELL CONSTRUCTION LOG



Westinghouse

PROJECT: Pole Site

BORING NO.: B-3

SHEET 2 OF 3

CLIENT: General Wood Preserving Company

JOB NO.: 4112-88-118

DEPTH FEET	SAMPLE NO.	BLOWS PER 6"	WELL CONSTRUCTION			IDENTIFICATION	REMARKS
	9	3 4 6				Light Gray Brown Fine Sandy CLAY with Thin Fine to Medium Sand Zones, Stiff	
25	10	9 18 19				Light Gray Brown Coarse SAND with Trace Silt, Wet	
	11	14 21 31				Medium Brown-Gray Medium to Coarse SAND with Trace Silt, Wet	
30	12	21 28 40				Medium Brown Medium to Coarse SAND with Trace Silt, Wet, with Little Very Coarse SAND	
	13	21 26 44				Medium Brown Medium to Coarse SAND with Trace Silt, Wet, with Little Very Coarse SAND	
35	14	26 36 50/4"				Medium Brown Medium to Coarse SAND with Trace Silt, Wet, with Little Very Coarse SAND	
	15	38 29 39				Medium Brown Medium to Coarse SAND with Trace Silt, Wet	
40	16	28 50/5"				Medium Brown Medium to Coarse SAND with Trace Silt, Wet, with Some Very Coarse SAND	
	17	25 29 41				Tan Mostly Medium SAND with Trace Silt, Slight Green Color, Little Fine to Coarse Sand, Wet	
45	18	23 28 43				Gray-Brown Mostly Coarse SAND with Little Very Coarse Sand and Trace Silt, Wet	



PROJECT: Pole Site

BORING NO.: B-3

SHEET 3 OF 3

CLIENT: General Wood Preserving Company

JOB NO.: 4112-88-118

[illegible]



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NC D093137636

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) General Wood Preserving Co., Inc.		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER Hwy. 74-76, Wood Treatment Road			
03 CITY Leland	04 STATE NC	05 ZIP CODE 28451	06 COUNTY Brunswick	07 COUNTY CODE 10	08 CONG DIST 7
09 COORDINATES LATITUDE 34 15 00 LONGITUDE 078 04 30					

10 DIRECTIONS TO SITE (Starting from nearest public road)
Take US Highway 421 South toward Wilmington. Just outside of Wilmington get on Hwy. 74-76 West. Travel approximately eight miles and turn left onto Wood Treatment Road. Take Wood Treatment Road to plant entrance.

III. RESPONSIBLE PARTIES

01 OWNER (If known) General Wood Preserving Co., Inc.		02 STREET (Business, mailing, residential) P.O. Box 370			
03 CITY Leland	04 STATE NC	05 ZIP CODE 28451	06 TELEPHONE NUMBER (919) 371-3131		
07 OPERATOR (If known and different from owner)		08 STREET (Business, mailing, residential)			
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER ()		

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☒ A. RCRA 3001 DATE RECEIVED: 8 / 18 / 80 MONTH DAY YEAR ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103(c)) DATE RECEIVED: _____ / _____ / _____ MONTH DAY YEAR ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE _____ / _____ / _____ MONTH DAY YEAR <input type="checkbox"/> NO Several times		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify) CONTRACTOR NAME(S): _____	
02 SITE STATUS (Check one) <input checked="" type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN	03 YEARS OF OPERATION 1979 : _____ BEGINNING YEAR ENDING YEAR		1979-1984 BPB Corp. <input type="checkbox"/> UNKNOWN 1984-present-General

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Wood treatment solutions including Copper-Chromium-Arsenic Solution (CCA);
Creosote and Pentachlorophenol (PCP)

Wood

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

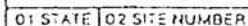
Poor operating procedures, unsuitable waste handling practices and illegal dumping has caused documented soil, surface water and groundwater contamination.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspection on time available basis) ☐ D. NONE (No further action needed, complete current assessment form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT Karl Boatwright, Plant Manager	02 OF (Agency/Organization) General Wood Preserving Co., Inc.	03 TELEPHONE NUMBER (919) 371-3131
04 PERSON RESPONSIBLE FOR ASSESSMENT John McConney	05 AGENCY NC DHS	06 ORGANIZATION Superfund Branch
07 TELEPHONE NUMBER 0919 733-2801		08 DATE 4 / 25 / 89 MONTH DAY YEAR



2. M NOT APPLICABLE

EPA FORM 2070-12 (7-51)



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NC	D093137636

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (Include name(s) of species)

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES
(Spills/runoff/standing liquids/leaking drums)
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: 1988) ☐ POTENTIAL ☒ ALLEGED

Wood preserving solutions were disposed of illegally. Soil samples taken documented the presence of arsenic, chromium, pentachlorophenol (PCP) as well as the components of creosote-naphthalene, fluorene, phenathene, anthracene, chrysene, etc.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: unknown

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

See attached listing



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NCD 093137636

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 ☒ OBSERVED (DATE: 1984) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

Four (4) monitoring wells, approximately 13 feet deep, showed elevated levels of chromium and arsenic. Water quality standards were violated.

01 ☒ B. SURFACE WATER CONTAMINATION 02 ☒ OBSERVED (DATE: 1981) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

Investigators from NC DEM documented contamination from toxic substances, they concluded that surface water had been subjected to some toxic substance for quite some time.

01 ☐ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

01 ☒ F. CONTAMINATION OF SOIL 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: (Acres) 04 NARRATIVE DESCRIPTION

Spills and slops of preserving material contaminated areas inside of plant. Illegal disposal contaminated various areas of facility.

01 ☐ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE
NCD

02 SITE NUMBER
093137636

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)

General Wood Preserving

02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER

Highway 74-76, Wood Treatment Road

03 CITY

Leland

04 STATE

NC

05 ZIP CODE

28451

06 COUNTY

Brunswick

07 COUNTY CODE

10

08 CONG DIST

7

09 COORDINATES

LATITUDE

LONGITUDE

34 15 00

078 04 30

10 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION

04 27 88
MONTH DAY YEAR

02 SITE STATUS

☒ ACTIVE
☐ INACTIVE

03 YEARS OF OPERATION

1979

Present

UNKNOWN

BEGINNING YEAR

ENDING YEAR

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR

☐ C. MUNICIPAL

☐ D. MUNICIPAL CONTRACTOR

☒ E. STATE ☐ F. STATE CONTRACTOR

☐ G. OTHER

05 CHIEF INSPECTOR

Doug Holyfield

06 TITLE

Field Operations Supervisor

07 ORGANIZATION

NC DSWM

08 TELEPHONE NO.

(919) 733-2178

09 OTHER INSPECTORS

Flint Worrell

10 TITLE

Waste Management Specialist

11 ORGANIZATION

NC DSWM

12 TELEPHONE NO.

(919) 486-1191

13 SITE REPRESENTATIVES INTERVIEWED

Karl Boatright

14 TITLE

Plant Manager

15 ADDRESS

Wood Treatment Road

16 TELEPHONE NO.

(919) 371-3131

17 ACCESS GAINED BY

(Check one)
☒ PERMISSION
☐ WARRANT

18 TIME OF INSPECTION

19 WEATHER CONDITIONS

IV. INFORMATION AVAILABLE FROM

01 CONTACT

Doug Holyfield

02 OF (Agency/Organization)

NC DSWM

03 TELEPHONE NO.

(919) 733-2178

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM

John McConney

05 AGENCY

NC DEHNR

06 ORGANIZATION

Superfund Section 919/733-2801

07 TELEPHONE NO.

08 DATE

9 28 89
MONTH DAY YEAR

Laboratory Data Summary

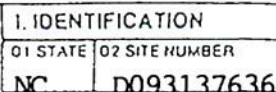
Inorganic Results

Four areas of the facility were sampled: the junkyard area, an old open drum in a scrapyard area, a ditch beside the treatment building, and the old impoundment area, with two samples taken from this area. No background soil sample was taken. Two of these areas contained contamination that exhibited the characteristics of EP Toxicity: the sample from the junkyard area contained Arsenic at 11 mg/l; the first sample from the old impoundment area contained Chromium at 16 mg/l and the second sample from this area contained Arsenic at 20 mg/l and Chromium at 9.4 mg/l.

(The maximum concentration of contaminants for characteristic of EP Toxicity for Arsenic and Chromium is 5.0 mg/l.)

Organic Results

Four areas of the facility were sampled: the junkyard area, the old impoundment area, the ditch leading from the treatment building and the ditch beside the kiln. No background soil sample was taken. Pentachlorophenol (PCP) was present in samples taken from two of the areas: in the ditch leading from the treatment building, present at 244 ppm, and in the ditch beside the kiln, present at 190 ppm. Contaminants indicative of creosote contamination were present in three of the samples. These contaminants included naphthalene and anthracene, among others. The sample from the old impoundment area contained fifteen compounds, present in amounts that ranged from 50 ppm to 2720 ppm. The samples from the ditch leading from the treatment building and the ditch beside the kiln contained sixteen compounds each, present in amounts that ranged from 35 ppm to 244 ppm. The sample taken from the junkyard area contained five compounds, including fluoranthene and pyrene, that were present in low amounts, ranging from 1 ppm to 6 ppm.



EPA FORM 2070-13 (7-81)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NC D093137636

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 ☒ OBSERVED (DATE: 1984) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

Four (4) monitoring wells approximately 13 feet deep, showed elevated levels of chromium and arsenic. Water quality standards were violated.

01 ☒ B. SURFACE WATER CONTAMINATION 02 ☒ OBSERVED (DATE: 1981) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

Investigators from NC DEM documented contamination from toxic substances; it was concluded that surface water had been subjected to some toxic substance for quite some time.

01 ☐ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

☒ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

01 ☒ F. CONTAMINATION OF SOIL 02 ☒ OBSERVED (DATE: 1981, 1988) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: (Acres) 04 NARRATIVE DESCRIPTION

Spills and overflows of hazardous materials contaminated areas inside of plant.
Improper disposal contaminated various areas of facility.

01 ☐ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NC

D093137636

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____);

☐ POTENTIAL

☐ ALLEGED

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (include name(s) of species)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☒ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

There is a good deal of commercial fishing, both shellfish and finfish, in the Brunswick and Cape Fear Rivers within fifteen path length miles of the site.

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES
(Spills/Runoff/Standing liquids, Leaking drums)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: 1988)

☐ POTENTIAL

☐ ALLEGED

Wood Preserving solutions were disposed of illegally. Soil samples taken documented the presence of arsenic, chromium, pentachlorophenol (PCP) and creosote constituents such as anthracene and naphthalene

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: unknown

IV. COMMENTS

See attached listing

V. SOURCES OF INFORMATION (See specific references, e.g., state files, sample analysis reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE NC 02 SITE NUMBER D093137636

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPDES				
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input checked="" type="checkbox"/> D. RCRA	D093137636			
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPCC PLAN				
<input type="checkbox"/> G. STATE (Specify)				
<input type="checkbox"/> H. LOCAL (Specify)				
<input type="checkbox"/> I. OTHER (Specify)				
<input type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input checked="" type="checkbox"/> A. SURFACE IMPOUNDMENT	unknown		<input type="checkbox"/> A. INCENERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input checked="" type="checkbox"/> C. DRUMS, ABOVE GROUND	unknown		<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input checked="" type="checkbox"/> F. LANDFILL	unknown		<input type="checkbox"/> F. SOLVENT RECOVERY	06 AREA OF SITE 120 (Acres)
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> H. OPEN DUMP			<input type="checkbox"/> H. OTHER (Specify)	
<input type="checkbox"/> I. OTHER (Specify)				

07 COMMENTS

Wood preserving chemicals were spilled and improperly disposed of in several areas of the facility. This included deleberate pouring or burial of hazardous chemicals in four areas.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

Hazardous chemicals were buried and poured out on the ground. No attempt to contain these wastes was made.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO

02 COMMENTS

VI. SOURCES OF INFORMATION (Check specific references, e.g. state files, sample analysis, reports)

See attached listing.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NC D093137636

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)		02 STATUS			03 DISTANCE TO SITE
	SURFACE WELL	ENDANGERED	AFFECTED	MONITORED	
COMMUNITY	A. <input type="checkbox"/> B. <input type="checkbox"/>	A. <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input type="checkbox"/>	A. _____ (mi)
NON-COMMUNITY	C. <input type="checkbox"/> D. <input checked="" type="checkbox"/>	D. <input type="checkbox"/>	E. <input type="checkbox"/>	F. <input type="checkbox"/>	B. <u>0.47</u> (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)				
<input checked="" type="checkbox"/> A. ONLY SOURCE FOR DRINKING <input type="checkbox"/> B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) <input type="checkbox"/> C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) <input type="checkbox"/> D. NOT USED, UNUSEABLE				
02 POPULATION SERVED BY GROUND WATER <u>456</u>		03 DISTANCE TO NEAREST DRINKING WATER WELL <u>0.47</u> (mi)		
04 DEPTH TO GROUNDWATER <u>3</u> (ft)	05 DIRECTION OF GROUNDWATER FLOW <u>unknown</u>	06 DEPTH TO AQUIFER OF CONCERN <u>3</u> (ft)	07 POTENTIAL YIELD OF AQUIFER <u>unknown</u> (gpd)	08 SOLE SOURCE AQUIFER <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

09 DESCRIPTION OF WELLS (Including usage, depth, and location relative to population and buildings)

The average depth of wells in the site area is 15-40 feet, with a maximum depth of 50-60 feet.

10 RECHARGE AREA		11 DISCHARGE AREA	
<input type="checkbox"/> YES <input type="checkbox"/> NO	COMMENTS	<input type="checkbox"/> YES <input type="checkbox"/> NO	COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)			
<input checked="" type="checkbox"/> A. RESERVOIR, RECREATION DRINKING WATER SOURCE <input type="checkbox"/> B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES <input type="checkbox"/> C. COMMERCIAL, INDUSTRIAL <input type="checkbox"/> D. NOT CURRENTLY USED			
02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER			
NAME:	AFFECTED	DISTANCE TO SITE	
<u>Sturgeon Creek</u>	<input checked="" type="checkbox"/>	<u>0.19</u> (mi)	
<u>Brunswick River</u>	<input type="checkbox"/>	_____ (mi)	
<u>Cape Fear River</u>	<input type="checkbox"/>	_____ (mi)	

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN			02 DISTANCE TO NEAREST POPULATION
ONE (1) MILE OF SITE A. _____ NO. OF PERSONS	TWO (2) MILES OF SITE B. _____ NO. OF PERSONS	THREE (3) MILES OF SITE C. _____ NO. OF PERSONS	_____ (mi)
03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE _____		04 DISTANCE TO NEAREST OFF-SITE BUILDING _____ (mi)	

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

The site is located in a rural area which is sparsely populated. The town of Leland is located nearby, within the three mile radius. Brunswick County has a population of 49,631 individuals in 860 square miles, which yields a population of 58 individuals per square mile.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NC D093137636

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. 10^{-6} - 10^{-8} cm/sec ☐ B. 10^{-4} - 10^{-6} cm/sec ☐ C. 10^{-4} - 10^{-3} cm/sec ☒ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE (10^{-4} - 10^{-6} cm/sec) ☒ C. RELATIVELY PERMEABLE (10^{-2} - 10^{-4} cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK

1500 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

unknown (ft)

05 SOIL pH

unknown

06 NET PRECIPITATION

12 (in)

07 ONE YEAR 24 HOUR RAINFALL

3.75 (in)

08 SLOPE

SITE SLOPE

0 %

DIRECTION OF SITE SLOPE

TERRAIN AVERAGE SLOPE

1.0 %

09 FLOOD POTENTIAL

SITE IS IN _____ YEAR FLOODPLAIN

10

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

OTHER

A. _____ (mi)

B. _____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

25 (mi)

ENDANGERED SPECIES: Waccamaw Silverside

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

RESIDENTIAL AREAS; NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

A. _____ (mi)

B. _____ (mi)

C. _____ (mi) D. _____ (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NC D093137636

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE	1	NC Laboratory of Public Health	
AIR			
RUNOFF			
SPILL			
SOIL	8	NC Laboratory of Public Health	
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF _____ (Name of organization or individual)
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS included in report

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See attached listing



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NC D093137636

II. CURRENT OWNER(S)

PARENT COMPANY (If applicable)

01 NAME General Wood Preserving Co.			02 D+B NUMBER			08 NAME			09 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.) Wood Treatment Road			04 SIC CODE 28451			10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE								
05 CITY Leland			06 STATE NC			07 ZIP CODE			12 CITY			13 STATE			14 ZIP CODE		
01 NAME			02 D+B NUMBER			08 NAME			09 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			12 CITY			13 STATE			14 ZIP CODE		
01 NAME			02 D+B NUMBER			08 NAME			09 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			12 CITY			13 STATE			14 ZIP CODE		
01 NAME			02 D+B NUMBER			08 NAME			09 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			12 CITY			13 STATE			14 ZIP CODE		
01 NAME			02 D+B NUMBER			08 NAME			09 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			12 CITY			13 STATE			14 ZIP CODE		

III. PREVIOUS OWNER(S) (List most recent first)

IV. REALTY OWNER(S) (If applicable; list most recent first)

01 NAME Burke-Parsons-Bowlby Corp.			02 D+B NUMBER			01 NAME			02 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.) PO Box 370			04 SIC CODE			03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE								
05 CITY Leland			06 STATE NC			07 ZIP CODE 28451			05 CITY			06 STATE			07 ZIP CODE		
01 NAME			02 D+B NUMBER			01 NAME			02 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			05 CITY			06 STATE			07 ZIP CODE		
01 NAME			02 D+B NUMBER			01 NAME			02 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			05 CITY			06 STATE			07 ZIP CODE		

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NC D093137636

II. CURRENT OPERATOR (Provide if different from owner)

OPERATOR'S PARENT COMPANY (If applicable)

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	14 CITY	15 STATE 16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER		

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	14 CITY	15 STATE 16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD		

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	14 CITY	15 STATE 16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD		

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	14 CITY	15 STATE 16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD		

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NC D093137636

II. ON-SITE GENERATOR

01 NAME		02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE		

III. OFF-SITE GENERATOR(S)

01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		05 CITY	06 STATE	07 ZIP CODE	

01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		05 CITY	06 STATE	07 ZIP CODE	

IV. TRANSPORTER(S)

01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		05 CITY	06 STATE	07 ZIP CODE	

01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		05 CITY	06 STATE	07 ZIP CODE	

V. SOURCES OF INFORMATION (Check specific references, e.g., state files, sample analysis, reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NC D093137636

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ D. SPILLED MATERIAL REMOVED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ E. CONTAMINATED SOIL REMOVED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ F. WASTE REPACKAGED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ G. WASTE DISPOSED ELSEWHERE
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ H. ON SITE BURIAL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ I. IN SITU CHEMICAL TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ J. IN SITU BIOLOGICAL TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☒ K. IN SITU PHYSICAL TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY NC Hazardous Waste Sec.

Cement was tilled into contaminated soil and allowed to cure into concrete with a strength of 2000 psi.

01 ☐ L. ENCAPSULATION
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ M. EMERGENCY WASTE TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ N. CUTOFF WALLS
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ P. CUTOFF TRENCHES/SUMP
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ Q. SUBSURFACE CUTOFF WALL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NC

D093137636

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ S. CAPPING/COVERING
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ T. BULK TANKAGE REPAIRED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ V. BOTTOM SEALED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ W. GAS CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ X. FIRE CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ Y. LEACHATE TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ Z. AREA EVACUATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ 2. POPULATION RELOCATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

SOURCES OF INFORMATION (Check specific references, e.g., state files, sample analysis, reports)

Please refer to the *Instructions for Filing Notification* before completing this form. The information requested here is required by law (Section 3010 of the Resource Conservation and Recovery Act).

Notification of Hazardous Waste Activity

Comments

ID - for Official Use Only												
C												T/A
W												

X. Description of Hazardous Wastes (continued from front)

A. Hazardous Wastes from Nonspecific Sources. Enter the four-digit number from 40 CFR Part 261.31 for each listed hazardous waste from nonspecific sources your installation handles. Use additional sheets if necessary. N/A

1	2	3	4	5	6
7	8	9	10	11	12

B. Hazardous Wastes from Specific Sources. Enter the four-digit number from 40 CFR Part 261.32 for each listed hazardous waste from specific sources your installation handles. Use additional sheets if necessary.

13	14	15	16	17	18
K 0 0 1					
19	20	21	22	23	24
25	26	27	28	29	30

C. Commercial Chemical Product Hazardous Wastes. Enter the four-digit number from 40 CFR Part 261.33 for each chemical substance your installation handles which may be a hazardous waste. Use additional sheets if necessary. N/A

31	32	33	34	35	36
37	38	39	40	41	42
43	44	45	46	47	48

D. Listed Infectious Wastes. Enter the four-digit number from 40 CFR Part 261.34 for each hazardous waste from hospitals, veterinary hospitals, or medical and research laboratories your installation handles. Use additional sheets if necessary. N/A

49	50	51	52	53	54

E. Characteristics of Nonlisted Hazardous Wastes. Mark 'X' in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles. (See 40 CFR Parts 261.21 - 261.24)

- ☐ 1. Ignitable (D001)
 ☐ 2. Corrosive (D002)
 ☐ 3. Reactive (D003)
 ☒ 4. Toxic (D004)

XI. Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature Karl A. Boatright	Name and Official Title (type or print) KARL A. BOATRIGHT, PRESIDENT	Date Signed 9-25-89
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FORM 1	 EPA	U.S. ENVIRONMENTAL PROTECTION AGENCY GENERAL INFORMATION Consolidated Permits Program (Read the "General Instructions" before starting.)	EPA I.D. NUMBER F N C D 0 9 3 1 3 7 6 3 6
LABEL ITEMS I. EPA I.D. NUMBER III. FACILITY NAME V. FACILITY MAILING ADDRESS VI. FACILITY LOCATION		PLEASE PLACE LABEL IN THIS SPACE	
		GENERAL INSTRUCTIONS If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, correct through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.	

II. POLLUTANT CHARACTERISTICS INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.													
SPECIFIC QUESTIONS				MARK "X"			SPECIFIC QUESTIONS				MARK "X"		
				YES	NO	FORM ATTACHED					YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)							B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)						
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)							D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)						
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3) (Note 1) **SEE ATTACHED NOTES**							F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)						
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)							H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)						
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)							J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)						

III. NAME OF FACILITY 1 GENERAL WOOD PRESERVING COMPANY INC											
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IV. FACILITY CONTACT A. NAME & TITLE (last, first, & title) 2 BOATRIGHT KARL PRESIDENT												B. PHONE (area code & no.) 9 1 9 3 7 1 3 1 3 1			
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V. FACILITY MAILING ADDRESS A. STREET OR P.O. BOX 3 P.O. BOX 370											
B. CITY OR TOWN 4 LELAND						C. STATE NC		D. ZIP CODE 2 8 4 5 1			

VI. FACILITY LOCATION A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER 5 H.WY. 74-76 E.											
B. COUNTY NAME BRUNSWICK						C. CITY OR TOWN LELAND		D. STATE NC		E. ZIP CODE 2 8 4 5 1	
F. COUNTY CODE (if known)											

A. FIRST		B. SECOND	
7 2 4 9 1 (specify)	WOOD PRESERVING	7 (specify)	N/A
C. THIRD		D. FOURTH	
7 (specify)	N/A	7 (specify)	N/A

VIII. OPERATOR INFORMATION

A. NAME		B. Is the name listed in Item VIII-A also owner?	
8 GENERAL WOOD PRESERVING COMPANY INC		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)		D. PHONE (area code & no.)	
F - FEDERAL M - PUBLIC (other than federal or state) S - STATE O - OTHER (specify) P - PRIVATE		P (specify) N/A A 9 1 9 3 7 1 3 1 3	
E. STREET OR P.O. BOX			
P O BOX 370			
F. CITY OR TOWN		G. STATE	H. ZIP CODE
B L E L A N D		N C	2 8 4 5 1

IX. INDIAN LAND	
Is the facility located on Indian lands?	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)		D. PSD (Air Emissions from Proposed Sources)	
9 N	N / A	9 P	N / A
B. UIC (Underground Injection of Fluids)		E. OTHER (specify)	
9 U	N / A	9	N / A
C. RCRA (Hazardous Wastes)		E. OTHER (specify)	
9 R	N / A	9	N / A

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures; each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

WOOD PRESERVING BUSINESS DEALING PRIMARILY IN UTILITY POLES AND PILING WITH A SMALL AMOUNT OF SQUARE DIMENSIONAL MATERIAL. THE POLES, PILING, AND DIMENSIONAL MATERIAL ARE BUNDLED AND PLACED IN 7 FOOT DIAMETER CYLINDERS AND PRESSURE TREATED WITH EITHER A PENTACHLOROPHENOL, CREOSOTE, OR CHROMATED COPPER ARSENATE SOLUTION.

XIII. CERTIFICATION (see instructions)	
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
KARL A. BOATRIGHT, PRESIDENT	Karl A Boatright	9-25-89
COMMENTS FOR OFFICIAL USE ONLY		